

EUROPEAN PATENT OFFICE

Patent Abstracts of Japan

PUBLICATION NUMBER : 2001017880
PUBLICATION DATE : 23-01-01

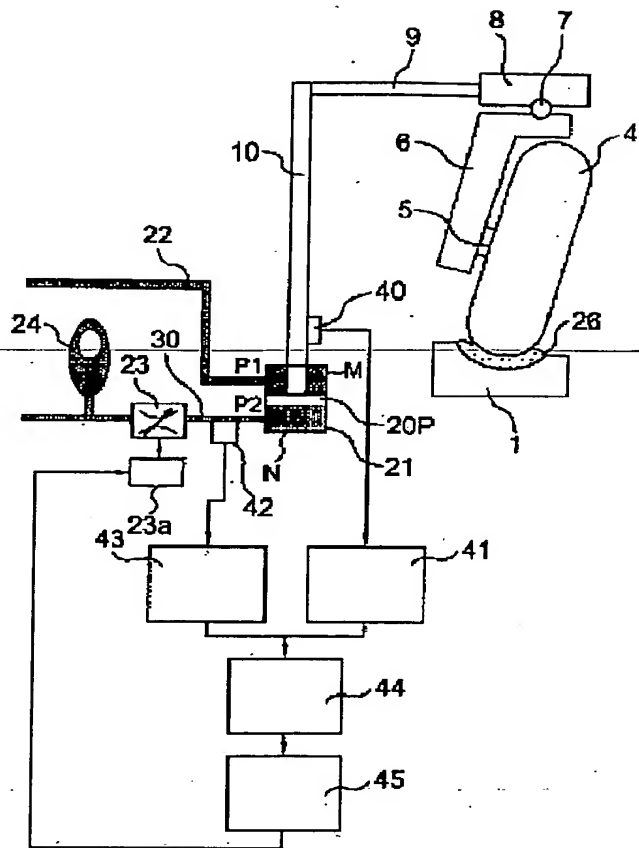
APPLICATION DATE : 07-07-99
APPLICATION NUMBER : 11193452

APPLICANT : BABCOCK HITACHI KK;

INVENTOR : SAKODA KOTARO;

INT.CL. : B02C 15/04 B02C 25/00

TITLE : ROLLER TYPE GRINDING
APPARATUS



ABSTRACT : PROBLEM TO BE SOLVED: To provide a roller type grinding apparatus always holding the maximum damping effect and capable of grinding an object up to an ultrafine powder.

SOLUTION: The positional change of a roller 4 is measured by the displacement meter 40 arranged on a loading rod 10 and the frequency component of the predetermined band of the displacement of a piston 20P is taken out by a band-pass filter 41. The fluctuations of the pressure in a chamber N are measured by the pressure gauge 42 arranged to the pipeline of a cylinder device and a flow rate adjusting valve 23 and the frequency component of the predetermined band of the fluctuations of the pressure in the chamber N is taken out by a band-pass filter 43. The advance angle ϕ to the displacement of the piston 20P of the pressure fluctuations is calculated by a phase difference calculator 44. A control device 45 adjusts the opening degree of the flow rate adjusting valve 23 so that the advance angle ϕ becomes a 1/4 cycle.

COPYRIGHT: (C)2001,JPO

BEST AVAILABLE COPY

BEST AVAILABLE COPY